

Figure 1

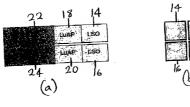




Figure 2

Material	Density e, g/cm <sup>3</sup>	Emission maximu m l, nm	Light Yield, photons/ MeV	Decay time t, ns	Photoelectric absorption coefficient @ 511 keV 1/cm
Lu <sub>2</sub> SiO <sub>5</sub> : Ce	7.4	420	27,000	40	0.30
(LSO) LuAlO <sub>3</sub> : Ce	8.34	380	9,600	11 (60%)	0.31
(LuAP) Gd <sub>2</sub> SiO <sub>5</sub> : Ce (GSO)	6.7	440	8,000/1,000	60 for fast component 600 for slow component	0.18

Figure 3

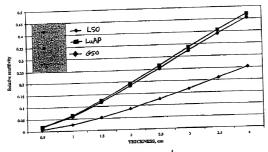
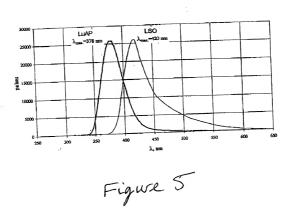
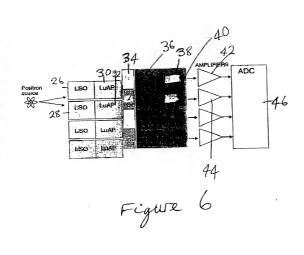


Figure 4





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